COURSE DESCRIPTION

G700 ACS1000 Operation & Maintenance
Classroom training in Turgi, Switzerland

Course goal
The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS1000. The students will develop their knowledge, confidence and skills in the handling of ACS1000 Voltage Source Inverter.

Main learning objectives
The course goal is to teach students to operate, maintain and troubleshoot the ACS1000 drive, air-cooled and water-cooled units. Upon completion of this course, students will be able to locate the hardware components, to verify and replace drive's parts and to perform preventive maintenance. The use of the available programming and troubleshooting tools is trained by practical operating exercises.

Participant profile
Electricians, technicians and engineers who operate, maintain or troubleshoot ACS1000

Prerequisites
– Basic knowledge of AC motors and drives
– Basic knowledge using computers with Windows

Topics
Generalities
– ACS1000 family overview, system requirements
– AC motor and DTC control
– Drive specific safety requirements

Hardware description
(power electronics & control)
– Component and PCB functions
– Hardware schematics and electrical drawings
– PCB settings and configuration
– ACS1000i characteristics

Water-cooled system
– Water circuits description
– Preventive maintenance

Operation
– Safety requirements
– Energize / de-energize the drive
– Local operation with drive control panel and DriveWindow tool
– Remote control

Software introduction
– Software structure, parameters description
– Application configuration

Fault tracing and troubleshooting
– Alarm and fault indications
– Checking and replacing PCB’s and components
– Using DriveWindow SW tool for configuration and troubleshooting
– How to get help from ABB
Course type
This is a face to face class room training with maximum 8 participants.

Learning methods and tools
– Lectures and demonstrations
– Practical exercises on fully operational training drive and other training equipment
– Factory visit

Duration
3 days

To register:
Please apply online (signup required): Motion Upskill/G700
Custom-tailored training courses or standard training at additional course dates are available on request.
Please note: The course is only carried out if at least 4 participants have been booked.

Course outline

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Classroom training

Hands-on training